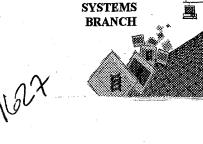# RAW SEQUENCE LISTING
ERROR REPORT

RECEIVED MAY 10 2002

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/425,804B_

Source: _1600_

Date Processed by STIC: _5/1/02_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
       http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
          Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

RAW SEQUENCE LISTING   DATE: 05/01/2002
PATENT APPLICATION: US/09/425,804B   TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

```
E--> 415 gtgggaatctc ctgg              (14) — line count is 15
     435 <210> SEQ ID NO: 35
     436 <211> LENGTH: 14
     437 <212> TYPE: DNA
     438 <213> ORGANISM: Artificial Sequence
     440 <220> FEATURE:
     441 <221> NAME/KEY: modified_base
W--> 442 <212> TYPE: (2)     → change to <222>   — only needed once
E--> 442 <212> TYPE: (2)  delete
W--> 443 <213> ORGANISM: thymidine 3'-O-phosphorothioate
     445 <220> FEATURE:
     446 <221> NAME/KEY: modified_base
     447 <222> LOCATION: (7)
     448 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     450 <220> FEATURE:
     451 <221> NAME/KEY: modified_base
     452 <222> LOCATION: (9)
     453 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     455 <220> FEATURE:
     456 <221> NAME/KEY: modified_base
     457 <222> LOCATION: (12)
     458 <223> OTHER INFORMATION: thymidine 3'-O-phosphorothioate
     460 <400> SEQUENCE: 35
     461 gtggaatctc ctgg              14
     463 <210> SEQ ID NO: 36
     464 <211> LENGTH: 14
     465 <212> TYPE: DNA
     466 <213> ORGANISM: Artificial Sequence
     468 <220> FEATURE:
     469 <221> NAME/KEY: modified_base
W--> 470 <212> TYPE: Compliment (2)    — same error as above
E--> 470 <212> TYPE: Compliment (2)       <222>
W--> 471 <213> ORGANISM: phosphorothioate     → change to <223>
     473 <220> FEATURE:
     474 <221> NAME/KEY: modified_base
W--> 475 <212> TYPE: Compliment (12)   — same   <222>
E--> 475 <212> TYPE: Compliment (12)
W--> 476 <213> ORGANISM: phosphorothioate    → change to <223>
     478 <220> FEATURE:
     479 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
     481 <400> SEQUENCE: 36
     482 ccaggagatt ccac              14
     484 <210> SEQ ID NO: 37
     485 <211> LENGTH: 14
     486 <212> TYPE: DNA
     487 <213> ORGANISM: Artificial Sequence
     489 <220> FEATURE:
     490 <221> NAME/KEY: modified_base
W--> 491 <212> TYPE: Compliment (5)
                        <222>
```

RAW SEQUENCE LISTING   DATE: 05/01/2002
PATENT APPLICATION: US/09/425,804B   TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

E--> 491 <212> TYPE: Compliment (5) *delete*
W--> 492 <213> ORGANISM: phosphorothioate   ⇒ <223>
     494 <220> FEATURE:
     495 <221> NAME/KEY: modified_base
W--> 496 <212> TYPE: Compliment (7) → <222>
E--> 496 <212> TYPE: Compliment (7) *delete*
W--> 497 <213> ORGANISM: phosphorothioate   → <223>
     499 <220> FEATURE:
     500 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
     502 <400> SEQUENCE: 37
     503 ccaggagatt ccac   14
     562 <210> SEQ ID NO: 40
     563 <211> LENGTH: 14
     564 <212> TYPE: DNA
     565 <213> ORGANISM: Artificial Sequence
     567 <220> FEATURE:
     568 <221> NAME/KEY: modified_base
     569 <222> LOCATION: (9)..(10)
     570 <223> OTHER INFORMATION: phosphorothioate
     572 <220> FEATURE:
     573 <221> NAME/KEY: modified_base
     574 <222> LOCATION: Complement (5)
     575 <223> OTHER INFORMATION: phosphorothioate
     577 <220> FEATURE:
     578 <221> NAME/KEY: modified_base
     579 <222> LOCATION: Complement (7)
     580 <223> OTHER INFORMATION: phosphorothioate
     582 <220> FEATURE:
     583 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
E--> 585 <400> SEQUENCE: 38
     586 ccaggagatt ccac   14   → Skipped sequence, see p.5
E--> 588 <210> SEQ ID NO: 40
     589 <211> LENGTH: 14
     590 <212> TYPE: DNA
     591 <213> ORGANISM: Artificial Sequence
     593 <220> FEATURE:
     594 <221> NAME/KEY: modified_base
     595 <222> LOCATION: (9)..(10)
     596 <223> OTHER INFORMATION: phosphorothioate
     598 <220> FEATURE:
     599 <221> NAME/KEY: modified_base
     600 <222> LOCATION: Complement (2)
     601 <223> OTHER INFORMATION: phosphorothioate
     603 <220> FEATURE:
     604 <221> NAME/KEY: modified_base
     605 <222> LOCATION: Complement (5)
     606 <223> OTHER INFORMATION: phosphorothioate
     608 <220> FEATURE:
     609 <221> NAME/KEY: modified_base

RAW SEQUENCE LISTING   DATE: 05/01/2002
PATENT APPLICATION: US/09/425,804B   TIME: 12:34:25

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

```
     610 <222> LOCATION: Complement (7)
     611 <223> OTHER INFORMATION: phosphorothioate
     613 <220> FEATURE:
     614 <221> NAME/KEY: modified_base
     615 <222> LOCATION: Complement (12)
     616 <223> OTHER INFORMATION: phosphorothioate
     618 <220> FEATURE:
     619 <223> OTHER INFORMATION: Description of Artificial Sequence: aptamer
E--> 621 <400> SEQUENCE: (41) — no. differs from Seq. ID No.
     622 ccaggagatt ccac          14
E--> 624 <210> SEQ ID NO: (42) — should be 41
     635 <210> SEQ ID NO: 43
     636 <211> LENGTH: 43
     637 <212> TYPE: DNA
     638 <213> ORGANISM: Artificial Sequence
     640 <220> FEATURE:
     641 <221> NAME/KEY: modified_base
W--> 642 <212> TYPE: (9)        ---> <222>
E--> 642 <212> TYPE: (9) delete
W--> 643 <213> ORGANISM: phosphorodithioate    ---> <223>
     645 <220> FEATURE:
     646 <221> NAME/KEY: modified_base
W--> 647 <212> TYPE: (20)              ---> <222>
E--> 647 <212> TYPE: (20) delete
W--> 648 <213> ORGANISM: phosphorodithioate
     650 <220> FEATURE:            ---> <223>
     651 <221> NAME/KEY: modified_base
W--> 652 <212> TYPE: (9)     ---> <222>
E--> 652 <212> TYPE: (9)
W--> 653 <213> ORGANISM: phosphate ester    ---> <223>
     655 <220> FEATURE:
     656 <221> NAME/KEY: modified_base
W--> 657 <212> TYPE: (20)      ---> <222>
E--> 657 <212> TYPE: (20) delete
W--> 658 <213> ORGANISM: phosphate ester    ---> <223>
W--> 660 <223> OTHER INFORMATION:
     660 <400> SEQUENCE: 43
E--> 661 ccaggagatt ccactttgt ggaatctcct gga          43
```

```
RAW SEQUENCE LISTING ERROR SUMMARY        DATE: 05/01/2002
PATENT APPLICATION:  US/09/425,804B       TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw
```

Skipped Sequences(NEW RULES):
Sequence(s)__missing. If intentional, please use the following format for
each skipped sequence.
<210> sequence id number
<400> sequence id number
000

Seq#:41

Use of <220> Feature(NEW RULES):
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:2,14,25,43

VERIFICATION SUMMARY   DATE: 05/01/2002
PATENT APPLICATION: US/09/425,804B   TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:38 M:254 E: No. of Bases conflict, LENGTH:Input:60 Counted:59 SEQ:1
M:254 Repeated in SeqNo=1
L:39 M:252 E: No. of Seq. differs, <211> LENGTH:Input:66 Found:65 SEQ:1
L:46 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:48 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:159 M:282 W: Numeric Field Identifier Missing, <212> is required.
L:176 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:178 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:178 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:298 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:298 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:415 M:254 E: No. of Bases conflict, LENGTH:Input:14 Counted:15 SEQ:33
L:415 M:252 E: No. of Seq. differs, <211> LENGTH:Input:14 Found:15 SEQ:33
L:442 M:280 W: Numeric Identifier already exists, Type not replaced.
L:442 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:443 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:470 M:280 W: Numeric Identifier already exists, Type not replaced.
L:470 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:471 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:475 M:280 W: Numeric Identifier already exists, Type not replaced.
L:475 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:476 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:491 M:280 W: Numeric Identifier already exists, Type not replaced.
L:491 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:492 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:496 M:280 W: Numeric Identifier already exists, Type not replaced.
L:496 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:497 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:585 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:38
L:588 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:40
L:621 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:40 differs:41
L:624 M:214 E: (33) Seq.# missing, SEQ ID NO:41
L:642 M:280 W: Numeric Identifier already exists, Type not replaced.
L:642 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:643 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:647 M:280 W: Numeric Identifier already exists, Type not replaced.
L:647 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:648 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:652 M:280 W: Numeric Identifier already exists, Type not replaced.
L:652 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:653 M:280 W: Numeric Identifier already exists, Organism not replaced.
L:657 M:280 W: Numeric Identifier already exists, Type not replaced.
L:657 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
L:658 M:280 W: Numeric Identifier already exists, Organism not replaced.

VERIFICATION SUMMARY   DATE: 05/01/2002
PATENT APPLICATION: US/09/425,804B   TIME: 12:34:26

Input Set : A:\09425804_Ref No 122144-1001 SEQ ID LISTING.txt
Output Set: N:\CRF3\05012002\I425804B.raw

L:660 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:661 M:254 E: No. of Bases conflict, LENGTH:Input:43 Counted:33 SEQ:43
L:661 M:252 E: No. of Seq. differs, <211> LENGTH:Input:43 Found:33 SEQ:43